

ThinkVision

**L2251x Wide Flat Panel Monitor**  
**User's Guide**



Product number

2578-HB6

**First Edition (Jun 2009)**

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# Safety information

## General Safety guidelines

For tips to help you use your computer safety, go to:

<http://www.lenovo.com/safety>

Before installing this product, read the Safety Information.

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Antes de instalar este producto, leia as Informações de Segurança.

在安装本产品之前, 请仔细阅读 **Safety Information**  
(安全信息)。

Prije instaliranja ovog proizvoda obavezno pročitajte sigurnosne upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Ennen kuin asennatt ämän tuotteen, lue turvaohjeet kohdasta Safety Information.

Avant d'installer ce produit, lisez les consignes de sécurité.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφάλειας (safety information).

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

製品の設置の前に、安全情報を読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Antes de instalar este producto, leia as Informações sobre Segurança.

Перед установкой продукта прочтите инструкции по технике безопасности.

Pred inštaláciou tohto produktu si prečítajte bezpečnostné informácie.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Antes de instalar este producto lea la información de seguridad.

Läs säkerhetsinformationen innan du installerar den här produkten.

សូមអានពីមានលើតល្អនៃ មុនពេលចាប់ផ្តើមបញ្ចូលកម្មវិធី

安裝本產品之前，請先閱讀「安全資訊」。

# Safety and Maintenance Guidelines

## Important Safety Information

The power cord is designed for use with your monitor. To use a different cord, use only a power source and connection compatible with this monitor.



**WARNING:** Always connect your monitor, the computer, and other equipment to a grounded (earthed) power outlet. To reduce the risk of electric shock or damage to your equipment, do not disable the power cord grounding feature. The grounding plug is an important safety feature.



**WARNING:** For your safety, be sure that the grounded power outlet you plug the power cord into is easily accessible to the operator and located as close to the equipment as possible. To disconnect power from the equipment, unplug the power cord from the power outlet by grasping the plug firmly. Never pull on the cord.



**CAUTION:** To protect your monitor, as well as your computer, connect all power cords for your computer and its peripheral devices (such as a monitor, printer, or scanner) to a surge protection device such as a power strip with surge protection or uninterruptible power supply (UPS).

Not all power strips provide surge protection; the power strips must be specifically labeled as having this ability. Use a power strip whose manufacturer offers a damage replacement policy, so you can replace your equipment if surge protection fails.



**CAUTION:** A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 0.75mm<sup>2</sup> or H05VVH2-F2 3G 0.75mm<sup>2</sup>) shall be used. Alternative a flexible cord be of synthetic rubber.

## Safety Precautions

- Use only a power source and connection compatible with this monitor, as indicated on the label/back plate of the monitor.
- Be sure the total ampere rating of the products connected to the outlet does not exceed the current rating of the electrical outlet, and the total ampere rating of the products connected to the power cord does not exceed the rating of the power cord. Look on the power label to determine the ampere rating (Amps or A) for each device.
- Install your monitor near a power outlet that you can easily reach. Disconnect the monitor by grasping the plug firmly and pulling it from the outlet. Never disconnect the monitor by pulling the cord.
- Do not allow anything to rest on the power cord. Do not walk on the cord.
- While using VESA mount application, the AC Inlet must face to down side. Do not face any other position.

## Maintenance Guidelines

To enhance the performance and extend the life of your monitor:

- Do not open your monitor cabinet or attempt to service this product yourself. If your monitor is not operating properly or has been dropped or damaged, contact your Lenovo authorized dealer, reseller, or service provider.
- Adjust only those controls that are described in the operating instructions.
- Turn your monitor off when not in use. You can substantially increase the life expectancy of the monitor by using a screen saver program and turning off the monitor when not in use.
- Keep your monitor in a well-ventilated area, away from excessive light, heat, or moisture.
- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- Unplug the monitor from the power outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- Do not drop the monitor or place it on an unstable surface.
- When removing the monitor base, you must lay the monitor face down on a soft area to prevent it from getting scratched, defaced, or broken.

## Cleaning the Monitor

The monitor is a high-quality optical device that requires special care when cleaning. To clean the monitor, follow these steps:

1. Turn off the computer and the monitor.
2. Unplug your monitor from the power outlet before cleaning.



**CAUTION:** Do not use benzene, thinner, ammonia, or any volatile substance to clean the monitor screen or cabinet.

These chemicals may damage the monitor. Do not use liquid or aerosol cleaners. Never use water to clean an LCD screen.

3. Wipe the screen with a dry, soft, clean cloth.  
If the screen requires additional cleaning, use an antistatic screen cleaner.
4. Dust the monitor housing. Use a damp cloth to clean the cabinet.  
If the cabinet requires additional cleaning, use a clean cloth dampened with isopropyl alcohol.
5. Plug in the monitor.
6. Turn on the monitor and the computer.

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## Chapter 1. Getting started

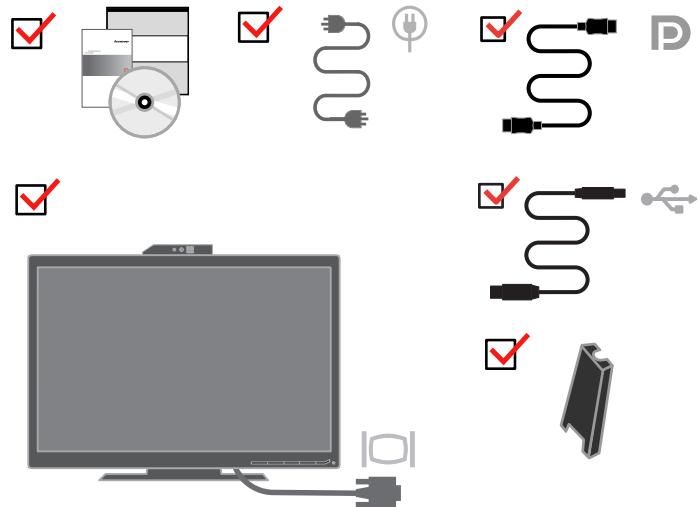
This User's Guide contains detailed information on the ThinkVision™ L2251x Wide Flat Panel Monitor. For a quick overview, please see the Setup Poster that was shipped with your monitor.

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### Shipping contents

The product package should include the following items:

- *Setup Poster*
- *Monitor Safety, Troubleshooting, and Warranty Guide*
- *Reference and Driver CD*
- Flat Panel Monitor
- Power Cord
- Analog Interface Cable- Attached to monitor
- Display port Cable
- USB Cable
- Cable Cover



**Note:** To attach a VESA mount, please see  
“Detaching the monitor stand” on page 2-7.

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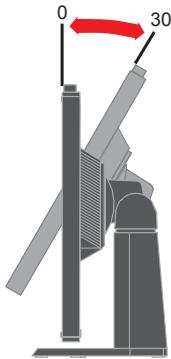
## Product overview

This section will provide information on adjusting monitor positions, setting user controls, and using the cable lock slot.

### Types of adjustments

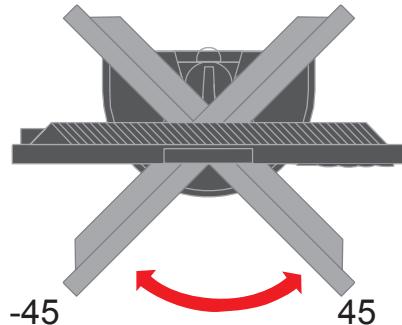
#### Tilt

Please see the illustration below for an example of the tilt range.



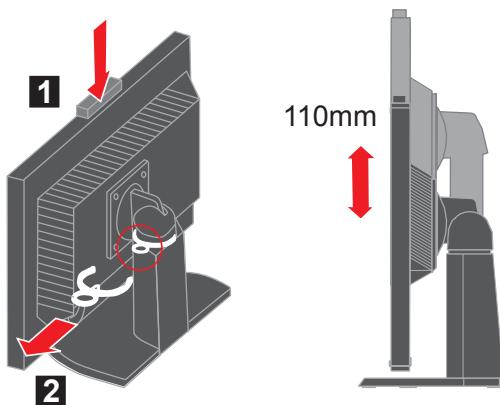
#### Swivel

With the built-in pedestal, you can tilt and swivel the monitor for the most comfortable viewing angle.

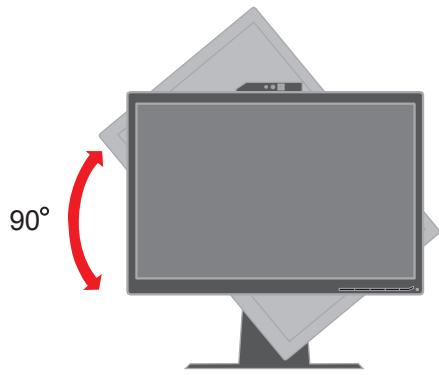


#### Height Adjustment

After pressing the top of the monitor, remove the fixed pin and adjust the height of the monitor.



## Monitor Pivot



- Adjust height to the top position before rotation the monitor.
- Rotate clockwise until the monitor stops at 90°.

## User controls

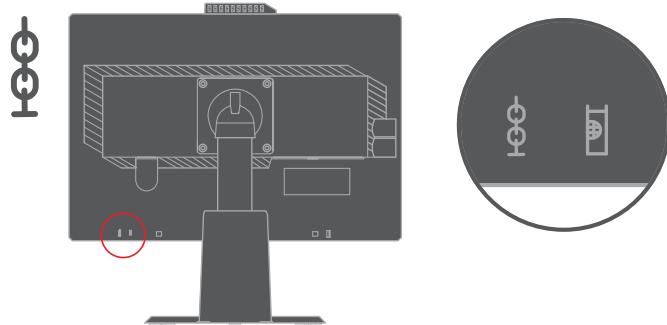
Your monitor has controls on the front which are used to adjust the display.



For information on how to use these controls, please see "Adjusting your monitor image" on page 2-3.

## Cable lock slot

Your monitor is equipped with a cable lock slot located on the rear of your monitor (in the lower right corner). Please follow the instructions that came with the cable lock to attach it.



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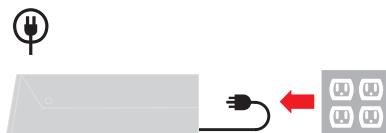
## Setting up your monitor

This section provides information to help you set up your monitor.

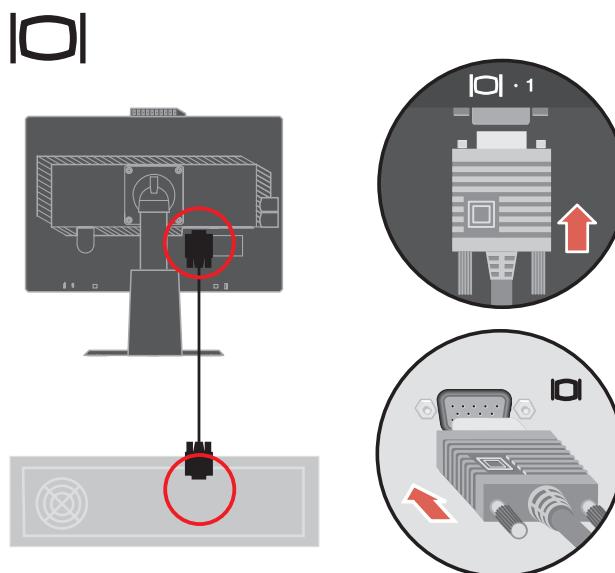
### Connecting and turning on your monitor

**Note:** Be sure to read the Safety Information located in the Monitor Safety, Troubleshooting, and Warranty Guide before carrying out this procedure.

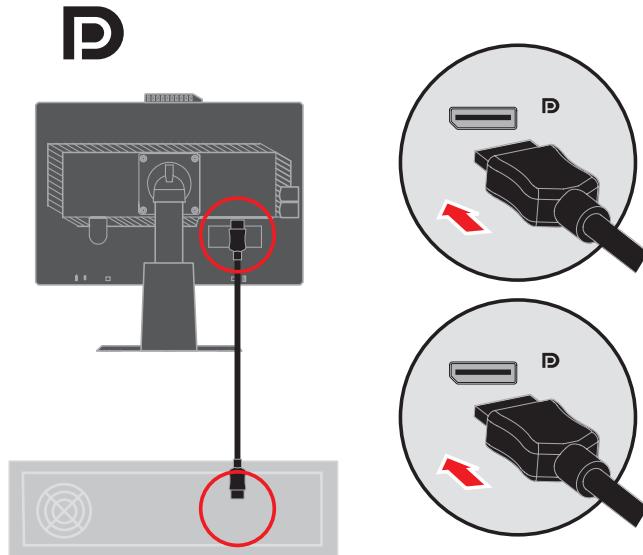
1. Power off your computer and all attached devices, and unplug the computer power cord.



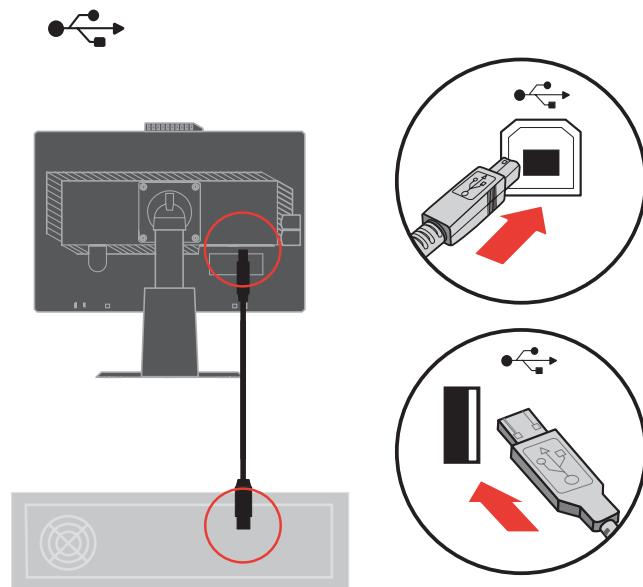
2. Connect the analog signal cable to the D-SUB connector of the monitor and the other end on the back of the computer.



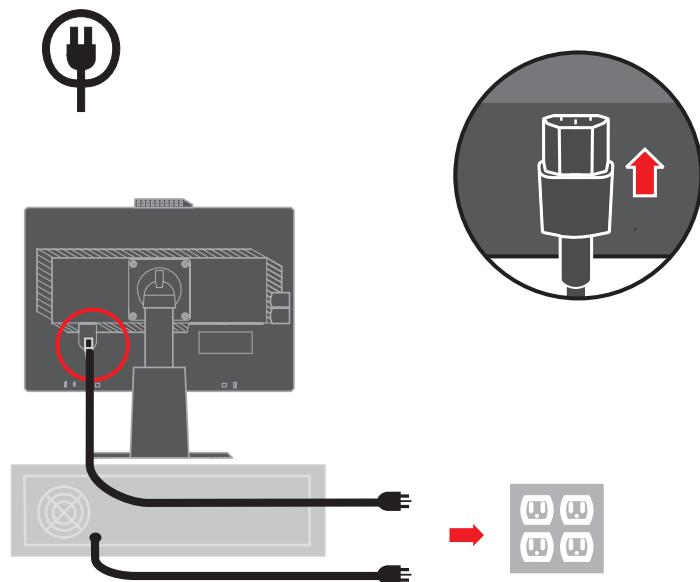
3. Connect one end of the DP cable to the DP connector on the back of the computer, and the other end to the DP connector on the monitor.



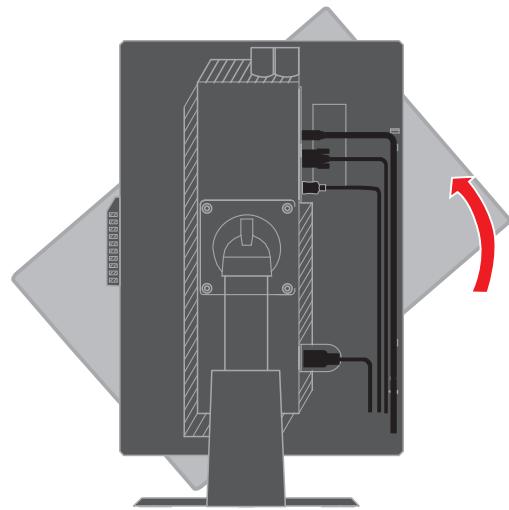
4. Connect one end of the USB hub cable to the USB connector on the back of the computer, and the other end to the upstream USB connector on the monitor.



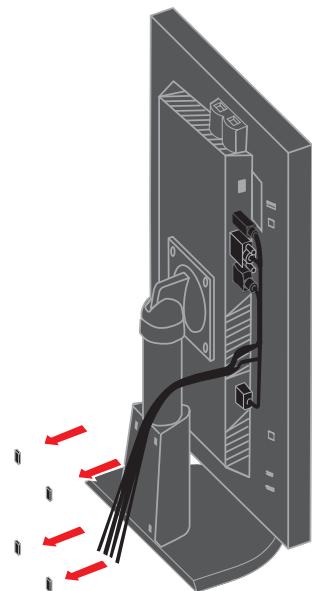
5. Plug the monitor power cord and the computer cord into grounded electrical outlets.  
**Note:** A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 0.75mm<sup>2</sup> or H05VVH2-F2 3G 0.75mm<sup>2</sup>) shall be used. Alternative a flexible cord be of synthetic rubber according to IEC 60245 (designation H05RR-F 3G 0.75mm<sup>2</sup>) shall be used.



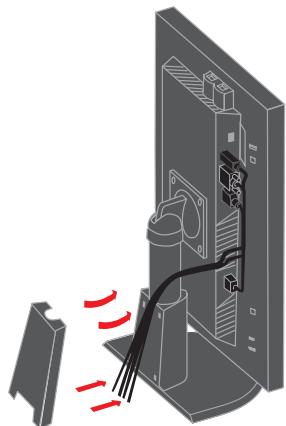
6. Rotate the head of the monitor into portrait view.



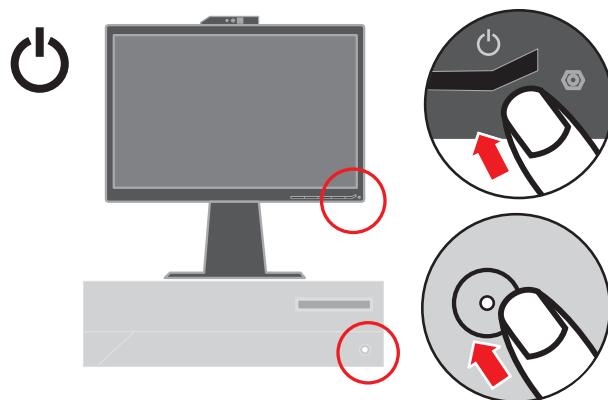
7. Remove the four rubbers from the stand.



8. Replace the Cable Cover.



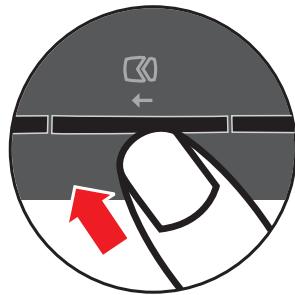
9. Power on the monitor and the computer.



10. To install the monitor driver, insert the Reference and Driver CD, click **Install driver**, and follow the on-screen instructions.



11. To optimize your monitor image, if using the analog cable, press the Automatic Image Setup key. Automatic image setup requires that the monitor is warmed up for at least 15 minutes. This is not required if you are using the DP cable.



**Note:** If automatic image setup does not establish the image that you prefer, perform manual image setup. See "Manual image setup" on page 3-2.

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## Registering your option

Thank you for purchasing this Lenovo® product. Please take a few moments to register your product and provide us with information that will help Lenovo to better serve you in the future. Your feedback is valuable to us in developing products and services that are important to you, as well as in developing better ways to communicate with you. Register your option on the following Web site: <http://www.lenovo.com/register>

Lenovo will send you information and updates on your registered product unless you indicate on the Web site questionnaire that you do not want to receive further information.

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## Chapter 2. Adjusting and using your monitor

This section will give you information on adjusting and using your monitor.

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### Comfort and accessibility

Good ergonomic practice is important to get the most from your personal computer and to avoid discomfort. Arrange your workplace and the equipment you use to suit your individual needs and the kind of work that you perform. In addition, use healthy work habits to maximize your performance and comfort while using your computer.

For more detailed information on any of these topics, visit the Healthy Computing Web site at: <http://www.lenovo.com/healthycomputing>

#### Arranging your work area

Use a work surface of appropriate height and available working area to allow you to work in comfort.

Organize your work area to match the way you use materials and equipment. Keep your work area clean and clear for the materials that you typically use and place the items that you use most frequently, such as the computer mouse or telephone, within the easiest reach.

Equipment layout and setup play a large role in your working posture. The following topics describe how to optimize equipment setup to achieve and maintain good working posture.

#### Positioning and viewing your monitor

Position and adjust your computer monitor for comfortable viewing by considering the following items:

- **Viewing distance:** Optimal viewing distances for monitors range from approximately 510mm to 760mm (20 in to 30 in) and can vary depending on ambient light and time of day. You can achieve different viewing distances by repositioning your monitor or by modifying your posture or chair position. Use a viewing distance that is most comfortable for you.
- **Monitor height:** Position the monitor so your head and neck are in a comfortable and neutral (vertical, or upright) position. If your monitor does not have height adjustments, you might have to place books or other sturdy objects under the base of the monitor to achieve the desired height. A general guideline is to position the monitor such that the top of the screen is at or slightly below your eye-height when you are comfortably seated. However, be sure to optimize your monitor height so the line of site between your eyes and the center of the monitor suits your preferences for visual distance and comfortable viewing when your eye muscles are in a relaxed state.
- **Tilt:** Adjust the tilt of your monitor to optimize the appearance of the screen content and to accommodate your preferred head and neck posture.
- **General location:** Position your monitor to avoid glare or reflections on the screen from overhead lighting or nearby windows.

The following are some other tips for comfortable viewing of your monitor:

- Use adequate lighting for the type of work you are performing.
- Use the monitor brightness, contrast, and image adjustment controls, if equipped, to optimize the image on your screen to meet your visual preferences.
- Keep your monitor screen clean so you can focus on the screen's contents.

Any concentrated and sustained visual activity can be tiring for your eyes. Be sure to periodically look away from your monitor screen and focus on a far object to allow your eye muscles to relax. If you have questions on eye fatigue or visual discomfort, consult a vision care specialist for advice.

## Quick tips for healthy work habits

The following information is a summary of some important factors to consider to help you remain comfortable and productive while you use your computer.

- **Good posture starts with equipment setup:** The layout of your work area and the setup of your computer equipment have a large effect on your posture while using your computer. Be sure to optimize the position and orientation of your equipment by following the tips outlined in "Arranging your work area" on page 2-1 so you can maintain a comfortable and productive posture. Also, be sure to use the adjustment capabilities of your computer components and office furniture to best suit your preferences now and as your preferences change over time.
- **Minor changes in posture can help avoid discomfort:** The longer you sit and work at your computer, the more important it is to observe your working posture. Avoid holding any one posture for an extended period of time. Periodically make minor modifications in your posture to help deter any discomforts that might arise. Make use of any adjustments that your office furniture or equipment provide to accommodate changes in posture.
- **Short, periodic breaks help ensure healthy computing:** Because computing is primarily a static activity, it is particularly important to take short breaks from your work. Periodically, stand up at your work area, stretch, walk for a drink of water, or otherwise take a short break from using your computer. A short break from work gives your body a welcome change in posture and helps to ensure you remain comfortable and productive while you do work.

## Accessibility information

Lenovo is committed to providing greater access to information and technology to people with disabilities. With assistive technologies, users can access information in the way most appropriate to their disability. Some of these technologies are already provided in your operating system; others can be purchased through vendors or accessed at:

<http://www-03.ibm.com/research/accessibility/requests/accvpat.nsf/lenovo-bidx?OpenForm>

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## Adjusting your monitor image

This section describes the user control features used to adjust your monitor image.

### Using the direct access controls

The direct access controls can be used when the On Screen Display (OSD) is not displayed.

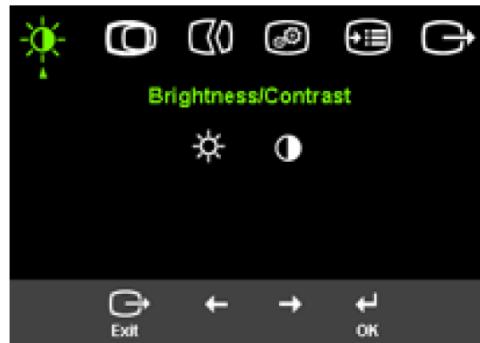
**Note:** The direct access controls are blue.

Table 2-1. Direct access controls

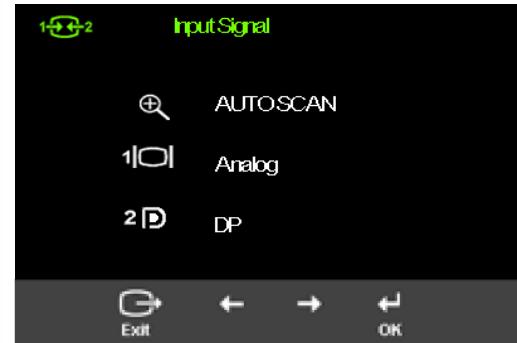
| Icon | Control      | Description                             |
|------|--------------|---|
|      | Input Change | Switches the video input source.        |
|      | Image Setup  | Activates automatic image adjustment.   |
|      | Brightness   | Direct access to Brightness adjustment. |

### Using the On-Screen Display (OSD) controls

The settings adjustable with the user controls are viewed through the On-Screen Display (OSD), as shown below.



(picture 1)



(picture 2)

To use the controls:

1. Press to open the main OSD menu(picture 1).
2. Use or to move among the icons. Select an icon and press to access that function. If there is a sub-menu, you can move between options using or , then press to select that function. Use or to make adjustments. Press to save.

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3. Press  to move backwards through the sub-menus and exit from the OSD.
4. Press and hold  for 10 seconds to lock the OSD. This will prevent accidental adjustments to the OSD. Press and hold  for 10 seconds to unlock the OSD and allow adjustments to the OSD.
5. Enables DDC/CI by default. Use OSD Exit Key, press and hold the  buttons for 10 seconds to disable/enable DDC/CI function. The words "DDC/CI Disable/DDC/CI/Enable" shows on the screen.
6. Press "Exit Key" to enter the input Signal menu(picture 2) when the monitor is under the condition of "No sync", "No Cable" or "power Saving Mode". press  or  to choose input signal. press "AUTOSCAN" to go back to Auto Scan mode.

## Using the Environment Sensing Utilities software controls

To use the controls:

1. Install the driver of camera from CD.
2. Install the Environment Sensing Utilities software from CD.
3. Open the Environment Sensing Utilities It can help you to use the display and computer in a healthier way by functions as follows:
  - a) Brightness Adjustment  
The Built-in camera of the display will detect the intensity of the ambient light, and set the display to an appropriate brightness.
  - b) Auto Power Saving  
The Built-in camera of the display will automatically detect whether the user is in front of the display or not.  
If the user is not in front of the display over a certain period of time, the display will automatically enter the power saving mode.
4. You can upgrade the Environment Sensing Utilities from the website:  
<http://www-307.ibm.com/pc/support/site.wss/document.do?Indocid=ENVR-SENSING>

Table 2-2. OSD functions

| OSD Icon on Main Menu  | Submenu  | Description  | Controls and Adjustments (Analog)   |   | Controls and Adjustments (Digital)                   |
|--|--|--|---|---|--|
| <br>Brightness/<br>Contrast | <br>Brightness          | Adjusts overall brightness   |   |   | Same as Analog                                       |
|  | <br>Contrast            | Adjusts difference between light and dark areas  |   |   |  |
| <br>Image Position          | <br>Horizontal Position | Moves the image left or right.   |   |   | Control Locked-<br>not required for<br>digital input |
|  | <br>Vertical Position   | Moves the image up or down   |   |   |  |
| <br>Image Setup             | <br>Automatic           | Automatically optimizes the image.   |   |   |  |
|  | <br>Manual             | Manually optimizes the image. See "Manual image setup" on page 3-3 <ul style="list-style-type: none"> <li>• Clock</li> <li>• Phase</li> <li>• Save</li> </ul>  |   |   |  |
| <br>Image Properties      | <br>Color             | Adjusts intensity of red, green, and blue.<br>Preset mode <ul style="list-style-type: none"> <li>• Neutral</li> <li>• sRGB</li> <li>• Reddish</li> <li>• Bluish</li> </ul> Custom <ul style="list-style-type: none"> <li>• Red: Increases or decreases the saturation of 'red' in the image.</li> <li>• Green: Increases or decreases the saturation of 'green' in the image.</li> <li>• Blue: Increases or decreases the saturation of 'blue' in the image.</li> <li>• Save: Saves the custom color choices.</li> </ul> |   |   | Same as Analog                                       |
|  | <br>Input Signal      | This monitor can accept video signals through two different connectors. Most desktop computers use a D-SUB connector. Select digital among OSD Controls when you use DP connector. <ul style="list-style-type: none"> <li>- Selects D-SUB (Analog)</li> <li>- Selects DP-Digital</li> </ul>  |   |   | Same as Analog                                       |

Table 2-2. OSD functions

| OSD Icon on Main Menu   | Submenu   | Description  | Controls and Adjustments (Analog) | Controls and Adjustments (Digital) |
|---|---|--|-----------------------------------|------------------------------------|
|   |  Scaling           | <ul style="list-style-type: none"> <li>Off (Original AR)<br/>Same Aspect Ratio with input signal.</li> <li>On (Full)<br/>Expand image size to full screen.</li> </ul>  |                                   |                                    |
|  Options |  Information       | <p>Shows resolution, refresh rate, and product details.</p> <p>Note: This screen does not allow any changes to the settings.</p>   | Same as Analog                    |                                    |
|   |  Menu Language     | <p>This section lists the languages supported by your monitor.</p> <p>Note: The language chosen only affects the language of the OSD. It has no effect on any software running on the computer.</p>  |                                   |                                    |
|   |  Menu Position     | Menu position adjusts menu location on the screen.   |                                   |                                    |
|   | Default   | Returns the menu position to the default settings.   |                                   |                                    |
|   | Custom  | <ul style="list-style-type: none"> <li>Horizontal: Changes the horizontal position of the OSD</li> <li>Vertical: Changes the vertical position of the OSD.</li> <li>Save</li> </ul>  |                                   |                                    |
|   |  Factory Default | <ul style="list-style-type: none"> <li>Cancel</li> <li>Reset</li> </ul> <p>Reset monitor to original settings.</p>   |                                   |                                    |
|   |  Accessibility   | <p>Controls button and menu settings for accessibility preferences.</p> <p> Button repeat rate:<br/>Select  or  to change.</p> <ul style="list-style-type: none"> <li>Off</li> <li>Default</li> <li>Slow</li> </ul> <p> Menu time out: Sets the length of time the OSD will remain active after the last time a button is pressed.</p> |                                   |                                    |
|  Exit  |   | Exit the main menu   | Same as Analog                    |                                    |

---

## Selecting a supported display mode

The display mode the monitor uses is controlled by the computer. Therefore, refer to your computer documentation for details on how to change display modes.

The image size, position and shape might change when the display mode changes. This is normal and the image can be readjusted using automatic image setup and the image controls.

Unlike CRT monitors, which require a high refresh rate to minimize flicker, LCD or Flat Panel technology is inherently flicker-free.

Note: If your system has previously been used with a CRT monitor and is currently configured to a display mode outside the range of this monitor, you may need to re-attach the CRT monitor temporarily until you have re-configured the system; preferably to 1680x1050 at 60Hz, which is the Native Resolution Display mode.

The display modes shown below have been optimized at the factory.

*Table 2-3. Factory set display modes*

| Addressability | Refresh rate           |
|----------------|------------------------|
| PAL            | 50Hz                   |
| 640x350        | 70Hz                   |
| 640x480        | 60Hz, 66Hz, 72Hz, 75Hz |
| 640x500        | 58Hz                   |
| 720x400        | 70Hz                   |
| 800x600        | 60Hz, 72Hz, 75Hz       |
| 1024x768       | 60Hz, 70Hz, 75Hz       |
| 1152x864       | 75Hz                   |
| 1280x1024      | 60Hz, 72Hz, 75Hz       |
| 1360x768       | 60Hz                   |
| 1440x900       | 60Hz, 75Hz             |
| 1600x1000      | 60Hz                   |
| 1680x1050      | 60Hz, 75Hz             |

---

## Understanding power management

Power management is invoked when the computer recognizes that you have not used your mouse or keyboard for a user-definable period. There are several states as described in the table below.

For optimal performance, switch off your monitor at the end of each working day, or whenever you expect to leave it unused for long periods during the day.

*Table 2-4. Power indicator*

| State               | Power Indicator | Screen | Restoring Operation   | Compliance  |
|---------------------|-----------------|--------|---|-------------|
| On                  | Steady green    | Normal |   |             |
| Standby/<br>Suspend | Steady amber    | Blank  | Press a key or move the mouse.<br>There may be a slight delay reappears.<br>Note: Standby also occurs if there is no image output to the monitor. | ENERGY STAR |
| Off                 | Off             | Off    | Press power key to switch on.<br>There may be a slight delay before the image reappears.  | ENERGY STAR |

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## Image rotation

Before rotating the monitor, you should set-up your computer to rotate the image. Rotating the image may require special rotation software or you may find that your computer is preloaded with video graphic drivers that allows image rotation. Check the Graphic Properties setting on your computer to see if this feature is available.

Try these steps to check if image rotation is available on your computer.

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab and click **Advanced**.
3. If you have ATI, select the **Rotation** tab and set the preferred rotation. If you have nVidia, click the **nVidia** tab, in the left-hand column select **NVRotate**, and then select the preferred rotation. If you have Intel, select the **Intel** graphics tab, click **Graphic Properties**, select the **Rotation** tab, and then set the preferred rotation.

Check with the manufacturer of your computer to see if graphic drivers with image rotation can be downloaded from their support website.

---

## Caring for your monitor

Be sure to turn off the power before you perform any maintenance on the monitor.

**Do not:**

- Apply water or liquid directly to your monitor.
- Use solvents or abrasives.
- Use flammable cleaning materials to clean your monitor or any other electrical equipment.
- Touch the screen area of your monitor with sharp or abrasive items. This type of contact may cause permanent damage to your screen.
- Use any cleaner which contains an anti-static solution or similar additives. This may harm the coating of the screen area.

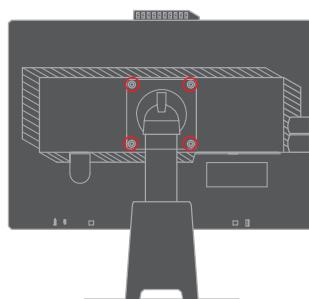
**Do:**

- Lightly dampen a soft cloth with water and use this to gently wipe the covers and the screen.
- Remove grease or finger marks with a damp cloth and a little mild detergent.

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## Detaching the monitor stand

After placing the monitor face down on a clean surface or soft cloth, remove the four screws from the stand to remove it from the monitor.



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## Chapter 3. Reference information

This section contains monitor specifications, instructions to manually install the monitor driver, troubleshooting information, and service information.

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### Monitor specifications

Table 3-1. Monitor specifications for type-model 2578-HB6

|  |   |   |
|--|---|---|
| Dimensions   | Height<br>Depth<br>Width  | 380.28 mm (14.972 in)<br>241.20 mm (9.496 in)<br>506.00 mm (19.921 in)                          |
| Stand  | Tilt range  | Range: 0° / +30°  |
|  | Swivel  | Range: -45°, +45°   |
|  | Lift  | Range: 110.0 mm   |
|  | Pivot   | Yes (clock wise 90 degree)  |
| VESA mount   | Supported   | 100 mm (3.94 in)  |
| Image  | Viewable image size<br>Maximum height<br>Maximum width<br>Pixel pitch                   | 558.68 mm (22.00 in)<br>296.10 mm (11.66 in)<br>473.76 mm (18.65 in)<br>0.282 mm (0.011 in) (V) |
| Power input  | Supply voltage<br>Max supply current  | 100-240 VAC, 60/50 ± 3 Hz<br>1.5 A  |
| Power consumption<br><small>Note: Power consumption figures are for the monitor and the power supply combined.</small> | Max Consumption<br>(Without USB hub)<br>Typical Consumption<br>Standby/Suspend<br>Off   | <28 W<br><br><21 W<br><br><1W<br><br>< 0.5 W  |
| Video input (Analog)   | Input signal<br>Horizontal addressability<br>Vertical addressability<br>Clock frequency | Analog Direct Drive, 75 ohm 0.7 V<br>1680 pixels (max)<br>1050 lines (max)<br>205 MHz           |
| Video input (Digital)  | Interface<br>Horizontal addressability<br>Vertical addressability<br>Clock frequency    | DP<br>1680 pixels (max)<br>1050 lines (max)<br>10.8Gbps (max)                                   |
| Communications   | VESA DDC  | CI  |
| Altitude Test  | Operation   | 8,000 ft  |
| Supported Display Modes<br><small>(VESA Standard modes between noted ranges)</small>                                   | Horizontal frequency  | VGA: 30 kHz - 83 kHz<br>DP: 30 kHz - 83 kHz   |
|  | Vertical frequency  | 50 Hz - 75 Hz   |
|  | Native Resolution   | 1680 x 1050 at 60 Hz  |
| Temperature  | Operating<br>Storage<br>Shipping  | 0° to 40°C (32° to 104° F)<br>-20° to 60°C (-4° to 140° F)<br>-20° to 60°C (-4° to 140° F)      |

*Table 3-1. Monitor specifications for type-model 2578-HB6 (continued)*

|          |                                  |                                       |
|----------|----------------------------------|---------------------------------------|
| Humidity | Operating<br>Storage<br>Shipping | 10% to 80%<br>5%° to 95%<br>5% to 95% |
|----------|----------------------------------|---------------------------------------|

## Troubleshooting

If you have a problem setting up or using your monitor, you might be able to solve it yourself. Before calling your dealer or Lenovo, try the suggested actions that are appropriate to your problem.

*Table 3-2. Troubleshooting*

| Problem  | Possible cause   | Suggested action   | Reference  |
|--|--|--|--|
| The words "Out of Range" are shown on the screen, and the power indicator is flashing green. | The system is set to a display mode which is not supported by the monitor.   | <ul style="list-style-type: none"><li>If you are replacing an old monitor, reconnect it and adjust the display mode to within the specified range for your new monitor.</li><li>If using a Windows system, restart the system in safe mode, then select a supported display mode for your computer.</li><li>If these options do not work, contact the Customer Support Center.</li></ul> | "Selecting a supported display mode" on page 2-6     |
| The image quality is unacceptable.   | The video signal cable is not connected with the monitor or system completely.   | Be sure the signal cable is firmly plugged into the system and monitor.  | "Connecting and turning on your monitor" on page 1-4 |
|  | The color settings may be incorrect.   | Select another color setting from the OSD menu.  | "Adjusting your monitor image" on page 2-3           |
|  | The automatic image setup function was not performed.  | Perform automatic image setup.   | "Adjusting your monitor image" on page 2-3           |
| The power indicator is not lit and there is no image.  | <ul style="list-style-type: none"><li>The monitor's power switch is not switched on.</li><li>The power cord is loose or disconnected.</li><li>There is no power at the outlet.</li></ul> | <ul style="list-style-type: none"><li>Be sure the power cord is connected properly.</li><li>Be sure the outlet has power.</li><li>Power on the monitor.</li><li>Try using another power cord.</li><li>Try using another electrical outlet.</li></ul>   | "Connecting and turning on your monitor" on page 1-4 |

Table 3-2. Troubleshooting (continued)

| Problem   | Possible cause  | Suggested action  | Reference   |
|---|---|---|---|
| Screen is blank and power indicator is steady amber or flashing green   | The monitor is in Standby/Suspend mode  | <ul style="list-style-type: none"> <li>Press any key on the keyboard or move the mouse to restore operation.</li> <li>Check the Power Options settings on your computer.</li> </ul> | "Understanding power management" on page 2-6                                  |
| The power indicator is green, but there is no image.  | The video signal cable is loose or disconnected from the system or monitor.   | Be sure the video cable is connected with the system properly.  | "Connecting and turning on your monitor" on page 1-4                          |
|   | The monitor brightness and contrast are at the lowest setting.  | Adjust the brightness and contrast setting on the OSD menu.   | "Adjusting your monitor image" on page 2-3                                    |
| One or more of the pixels appear discolored   | This is a characteristic of the LCD technology and is not an LCD defect.  | If there are more than five pixels missing, contact the Customer Support Center.  | Appendix A, "Service and Support," on page A-1                                |
| <ul style="list-style-type: none"> <li>Fuzzy lines in text or a blurry image.</li> <li>Horizontal or vertical lines through the image.</li> </ul> | <ul style="list-style-type: none"> <li>Image setup has not been optimized</li> <li>Your system Display Properties setting have not been optimized.</li> </ul> | Adjust the resolution settings on your system to match the native resolution for this monitor: 1680x1050 at 60 Hz.  | <p>"Adjusting your monitor image" on page 2-3</p> <p>"Manual image setup"</p> |
|   |   | Perform automatic image setup. If automatic image setup does not help, perform manual image setup.  | "Selecting a supported display mode" on page 2-6                              |
|   |   | When working in the native resolution, you may find additional improvements by adjusting the Dots Per Inch (DPI) setting on your system.  | See the Advanced section of your system's display properties.                 |

## Manual image setup

If automatic image setup does not establish the image that you prefer, perform manual image setup.

Note: Have your monitor powered on for about 15 minutes, until the monitor warms up.

1. Press  at the bottom of the monitor to open the OSD menu.
2. Use  or  to select  and press  to access.
3. Use  or  to select **Clock** and **Phase** adjustment.

- **Clock** (pixel frequency) adjusts the number of pixels scanned by one Horizontal sweep. If the frequency is not correct, the screen shows vertical Stripes and the picture does not have the correct width.
- **Phase** adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the picture has horizontal disturbances in light picture.

4. When the image no longer looks distorted, save the Clock and Phase adjustments.
5. Press  to leave the OSD menu.

## Manually installing the monitor driver

Below are steps for manually installing the monitor driver in Microsoft Windows Vista, Microsoft Windows XP.

### Installing the monitor driver in Windows Vista

To install the device driver in Microsoft® Windows Vista, do the following:

Note: You must download files from the Lenovo Monitor CD to use the Plug and Play feature in Windows Vista.

1. Turn off the computer and all attached devices.
2. Ensure that the monitor is connected correctly.
3. Turn on the monitor and then the system unit. Allow your computer to start the Windows Vista operating system.
4. Open the **Display Properties** window by clicking Start, Control Panel and then double-clicking the **Hardware and Sound** icon.
5. Click the **Personalization** icon.
6. Click the **Display Settings** icon.
7. Click the **Advanced Settings** button.
8. Click the **Monitor** tab.
9. Click the **Properties** button.
10. Click the **Driver** tab.
11. Open the "**Update Driver Software-Generic PnP Monitor**" window by clicking on **Update Driver** and then click the "**Browse my computer for driver software**" button.
12. Select "**Let me pick from a list of device drivers on my computer**" and then click the **Next** button.
13. Insert the Lenovo Monitor CD into the CD drive and click the **Have Disk** button.

Click on the **Browse** button and navigate to the following directory:

**X:\Monitor Drivers\Windows Vista** (where X is the drive letter designator for the CD-ROM drive).

14. Select the "**L2251xwD.inf**" file and click the **Open** button. Click the **OK** button.
15. Select **L2251xwD** and click **Next**. The files will be copied from the CD to your hard disk drive.
16. Close all open windows and remove the CD.
17. Restart the computer.

The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

Note: On LCD monitors, unlike CRTs, a faster refresh rate does not improve display quality. Lenovo recommends using either 1680 x 1050 at a refresh rate of 60 Hz, or 640 x 480 at a refresh rate of 60 Hz.

## Installing the monitor driver in Windows XP

To use the Plug and Play feature in Windows XP, files should be loaded from the *Reference and Driver CD*.

Note: This section must be completed before continuing with the Windows XP automatic image setup.

1. Turn off the computer and all attached devices
2. Ensure that the monitor is connected correctly.
3. Turn on the monitor and then the system unit. Allow the system to boot into Windows XP.
4. Open the **Display Properties** window by clicking **Start → Settings → Control Panel**, and then double-clicking the **Display** icon.
5. Click the **Setting** tab.
6. Click the **Advanced** button.
7. Click the **Monitor** tab.
8. Click the **Properties** button.
9. Click the **Drivers** tab.
10. Open the **Hardware Update Wizard** window by clicking on **Update Driver**, and then click **Next**.
11. Select **Install from a list or Specific location (Advanced)**, and then click **Next**.
12. Insert the Setup CD into the CD driver, then click the **Have Disk** button.
13. Click on the **Browse** button and navigate to the following directory:  
**X:\Monitor Drivers\Windows XP**  
(where X is the drive letter designator for the CD-ROM drive).
14. Select the "**L2251xwD.inf**" file and click the **Open** button. Click the **OK** button.
15. Choose **L2251xwD** and click **OK**. The files will be copied from the CD to your hard disk drive.
16. Close all open windows and remove the CD.
17. Restart the system. The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

**Note:** On LCD monitors, unlike CRTs, a faster refresh rate does not improve display quality. Lenovo recommends using either 1680x 1050 at a refresh rate of 60 Hz, or 640x480 at a refresh rate of 60Hz.

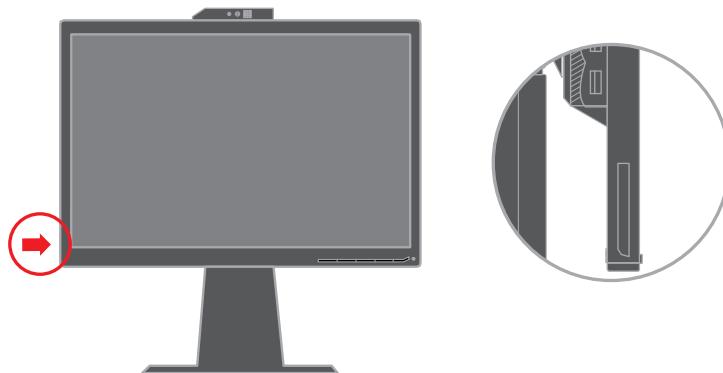
## Getting further help

If you still can't solve your problem, please contact the Customer Support Center. For more information on contacting the Customer Support Center, please see Appendix A, "Service and Support," on page A-1.

## Service information

### Product numbers

The product number for your monitor is located on the side of the display bezel as shown below.



### Customer responsibilities

The warranty does not apply to a product which has been damaged due to accident, misuse, abuse, improper installation, usage not in accordance with product specifications and instructions, natural or personal disaster, or unauthorized alterations, repairs or modifications.

The following are examples of misuse or abuse and not covered by warranty:

- Images burned on to the screen of a CRT monitor. Burned image is preventable by utilizing a moving screen saver or power management.
- Physical damage to covers, bezel, base and cables.
- Scratches or punctures on monitor screens.

## Service parts

The following parts are for use by Lenovo service, or Lenovo authorized dealers, To support the customer warranty. Parts are for service use only. The table below shows information for model 2578-HB6.

Table 3-3. List of service parts

| FRU (Field Replaceable Unit)<br>Part number | Description                    | color          | Machine Type<br>Model (MTM) |
|---|--------------------------------|----------------|-----------------------------|
| 45J8746                                     | L2251x Wide FRU Monitor        | Business Black | 2578-HB6                    |
| 45J8747                                     | L2251x Wide Analog cable       | Business Black | 2578-HB6                    |
| 45J8748                                     | L2251x Wide Display Port cable | Business Black | 2578-HB6                    |
| 45J8749                                     | L2251x Wide FRU Stand and base | Business Black | 2578-HB6                    |

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## Appendix A. Service and Support

The following information describes the technical support that is available for your product, during the warranty period or throughout the life of your product. Refer to the Lenovo Limited Warranty for a full explanation of Lenovo warranty terms.

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### Registering your option

Register to receive product service and support updates, as well as free and discounted computer accessories and content. Go to:  
<http://www.lenovo.com/register>

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### Online technical support

Online technical support is available during the lifetime of a product at:  
<http://www.lenovo.com/support>

Product replacement assistance or exchange of defective components also is available during the warranty period. In addition, if your option is installed in a Lenovo computer, you might be entitled to service at your location. A Lenovo technical support representative can help you determine the best alternative.

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### Telephone technical support

Installation and configuration support through the Customer Support Center will be available until 90 days after the option has been withdrawn from marketing. After that time, the support is cancelled, or made available for a fee, at Lenovo's discretion. Additional support is also available for a nominal fee.

Before contacting a Lenovo technical support representative, please have the following information available: option name and number, proof of purchase, computer manufacturer, model, serial number and manual, the exact wording of any error message, description of the problem, and the hardware and software configuration information for your system.

Your technical support representative might want to walk you through the problem while you are at your computer during the call.

Telephone numbers are subject to change without notice. The most up-to-date telephone list for Lenovo Support is always available at:  
<http://www.lenovo.com/support/phone>

| Country or Region        | Telephone Number  |
|--------------------------|---|
| Africa                   | Africa: +44 (0)1475-555-055<br>South Africa: +27-11-3028888 and 0800110756<br>Central Africa: Contact the nearest Lenovo Business Partner |
| Argentina                | 0800-666-0011 (Spanish)   |
| Australia                | 131-426 (English)   |
| Austria                  | Warranty service and support: 01-211-454-610 (German)   |
| Belgium                  | Warranty service and support: 02-225-3611 (Dutch, French)   |
| Bolivia                  | 0800-10-0189 (Spanish)  |
| Brazil                   | Sao Paulo region: (11) 3889-8986<br>Outside Sao Paulo region: 0800-701-4815<br>(Brazilian Portuguese)                                     |
| Brunei                   | 801-1041 (English, Bahasa Melayu)   |
| Canada                   | Toronto: 416-383-3344<br>Outside Toronto: 1-800-565-3344<br>(English, French)   |
| Chile                    | Toll Free: 188-800-442-488<br>800-361-213<br>(Spanish)  |
| China                    | 86-10-58851110<br>800-990-8888<br>(Mandarin)  |
| China (Hong Kong S.A.R.) | ThinkCentre® Commercial PC: 8205-0333<br>Multimedia Home PC: 800-938-228<br>(Cantonese, English, Mandarin)                                |
| China (Macau S.A.R.)     | ThinkCentre Commercial PC: 795-9892<br>Multimedia Home PC: 0800-336<br>(Cantonese, English, Mandarin)                                     |
| Colombia                 | 1-800-912-3021 (Spanish)  |
| Costa Rica               | 0-800-011-1029 (Spanish)  |
| Croatia                  | 0800-0426   |
| Cyprus                   | +357-22-841100  |
| Czech Republic           | +420-2-7213-1316  |
| Denmark                  | Warranty service and support: 7010-5150 (Danish)  |
| Dominican Republic       | 1-866-434-2080 (Spanish)  |
| Ecuador                  | 1-800-426911 (Spanish)  |
| Egypt                    | +202-35362525   |
| El Salvador              | 800-6264 (Spanish)  |
| Estonia                  | +372 6776793<br>+372 66 00 800  |
| Finland                  | Warranty service and support: +358-800-1-4260 (Finnish)   |
| France                   | Warranty service and support (hardware): 0810-631-213<br>Warranty service and support (software): 0810-631-020<br>(French)                |

| Country or Region | Telephone Number  |
|-------------------|---|
| Germany           | Warranty service and support: 01805-00-46-18 (German)   |
| Greece            | +30-210-680-1700  |
| Guatemala         | 1800-624-0051 (Spanish)   |
| Honduras          | Tegucigalpa: 232-4222<br>San Pedro Sula: 552-2234<br>(Spanish)  |
| Hungary           | +36-1-382-5716<br>+36-1-382-5720<br>(English, Hungarian)  |
| India             | 1800-425-2666<br>+91-80-2535-9182<br>(English)  |
| Indonesia         | 021 5238 823<br>Local number only: 001-803-606-282<br>DID (Direct Inward Dialing): +603 8315 6859<br>(English, Bahasa Indonesia)  |
| Ireland           | Warranty service and support: 01-881-1444 (English)   |
| Israel            | Givat Shmuel Service Center: +972-3-531-3900<br>(Hebrew, English)   |
| Italy             | Warranty service and support: +39-800-820094 (Italian)  |
| Japan             | Toll Free: 0120-20-5550<br>International: +81-46-266-4716<br><br>The above numbers will be answered with a Japanese language voice prompt. For telephone support in English, please wait for the Japanese voice prompt to end, and an operator will answer. Please say "English support please," and your call will be transferred to an English-speaking operator.<br><br>PC software: 0120-558-695<br>Overseas calls: +81-44-200-8666<br>(Japanese) |
| Korea             | 1588-6782 (Korean)  |
| Latvia            | +371 7070360  |
| Lithuania         | +370 5 278 66 00  |
| Luxembourg        | +352-360-385-343 (French)   |
| Malaysia          | Local number only: 1800-88-1889<br>DID: +603 8315 6855<br>(English, Bahasa Melayu)  |
| Malta             | +35621445566  |
| Mexico            | 001-866-434-2080 (Spanish)  |
| Middle East       | +44 (0)1475-555-055   |
| Netherlands       | +31-20-514-5770 (Dutch)   |
| New Zealand       | 0800-733-222 (English)  |
| Nicaragua         | 001-800-220-1830 (Spanish)  |
| Norway            | Warranty service and support: 8152-1550 (Norwegian)   |
| Panama            | Lenovo Customer Support Center: 001-866-434-2080 (Toll Free)<br>206-6047<br>(Spanish)   |

| Country or Region | Telephone Number  |
|-------------------|---|
| Peru              | 0-800-50-866 (Spanish)  |
| Philippines       | 1800-1601-0033 (English, Filipino)  |
| Poland            | +48-22-878-6999 (Polski)  |
| Portugal          | +351-21-892-7046 (Portuguese)   |
| Romania           | +4-021-224-4015   |
| Russia            | Moscow: +7-(495)-258-6300<br>Toll Free: +8-800-200-6300<br>(Russian)  |
| Singapore         | Local number only: 800-6011-343<br>DID: +603 8315 6859 (English)  |
| Slovakia          | +421-2-4954-5555  |
| Slovenia          | +386-1-200-50-60 (Slovenian)  |
| Spain             | 91-714-7983<br>0901-100-000<br>(Spanish)  |
| Sri Lanka         | +9411 2493547<br>+9411 2493548<br>(English)   |
| Sweden            | Warranty service and support: 077-117-1040 (Swedish)  |
| Switzerland       | Warranty service and support: 0800-55-54-54<br>(German, French, Italian)  |
| Taiwan            | 886-2-8723-9799<br>0800-000-700<br>(Mandarin)   |
| Thailand          | Local number only: 1-800-060-066<br>66 2273 4088<br>DID: +603 8315 6857 (Thai, English)   |
| Turkey            | 00800-4463-2041 (Turkish)   |
| United Kingdom    | Standard warranty support: 08705-500-900 (English)  |
| United States     | 1-800-426-7378 (English)  |
| Uruguay           | 000-411-005-6649 (Spanish)  |
| Venezuela         | 0-800-100-2011 (Spanish)  |
| Vietnam           | For Northern Area and Hanoi City:<br>844 3 946 2000 or 844 3 942 6457<br>For Southern Area and Ho Chi Minh City:<br>848 3 829 5160 or 844 3 942 6457<br>(Vietnamese, English) |

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## Appendix B. Notices

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## Recycling information

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products.

For information on recycling Lenovo products, go to:

<http://www.lenovo.com/lenovo/environment/recycling>

### 環境配慮に関して

#### 本機器またはモニターの回収リサイクルについて

企業のお客様が、本機器が使用済みとなり廃棄される場合は、資源有効利用促進法の規定により、産業廃棄物として、地域を管轄する県知事あるいは、政令市長の許可を持った産業廃棄物処理業者に適正処理を委託する必要があります。また、弊社では資源有効利用促進法に基づき使用済みパソコンの回収および再利用・再資源化を行う「PC回収リサイクル・サービス」を提供しています。詳細は、<http://www.ibm.com/jp/pc/service/recycle/pcrecycle/> をご参照ください。

また、同法により、家庭で使用済みとなったパソコンのメーカー等による回収再資源化が2003年10月1日よりスタートしました。詳細は、<http://www.ibm.com/jp/pc/service/recycle/pcrecycle/> をご参照ください。

#### 重金属を含む内部部品の廃棄処理について

本機器のプリント基板等には微量の重金属（鉛など）が使用されています。使用後は適切な処理を行うため、上記「本機器またはモニターの回収リサイクルについて」に従って廃棄してください。

### Collecting and recycling a disused Lenovo computer or monitor

If you are a company employee and need to dispose of a Lenovo computer or monitor that is the property of the company, you must do so in accordance with the Law for Promotion of Effective Utilization of Resources. Computers and monitors are categorized as industrial waste and should be properly disposed of by an industrial waste disposal contractor certified by a local government. In accordance with the Law for Promotion of Effective Utilization of Resources, Lenovo Japan provides, through its PC Collecting and Recycling Services, for the collecting, reuse, and recycling of disused computers and monitors. For details, visit the Lenovo Web site at [www.ibm.com/jp/pc/service/recycle/pcrecycle/](http://www.ibm.com/jp/pc/service/recycle/pcrecycle/). Pursuant to the Law for Promotion of Effective Utilization of Resources, the collecting and recycling of home-used computers and monitors by the manufacturer was begun on October 1, 2003. This service is provided free of charge for home-used computers sold after October 1, 2003. For details, visit the Lenovo Web site at [www.ibm.com/jp/pc/service/recycle/personal/](http://www.ibm.com/jp/pc/service/recycle/personal/).

## Disposing of Lenovo computer components

Some Lenovo computer products sold in Japan may have components that contain heavy metals or other environmental sensitive substances. To properly dispose of disused components, such as a printed circuit board or drive, use the methods described above for collecting and recycling a disused computer or monitor.

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## Turkish statement of compliance

The Lenovo product meets the requirements of the Republic of Turkey Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (EEE).

### **Türkiye EEE Yönetmeliğine Uygunluk Beyanı**

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